

VA-9000 Series

Electric Rotary Actuators



Description

The VA-9000 Series Electric Rotary Actuators mount directly on VF Series Butterfly Valves. These actuators are available in two different sizes for two-position or modulating service on 16 through 20 in. standard-temperature, standard-pressure butterfly valves, and 10 through 16 in. high-temperature, high-pressure butterfly valves.

Features

- built-in motor overload protection
- output torques from 10,000 or 21,000 lb-in (1,130 or 2,373 N·m)
- visual position indication and manual override on all models
- factory-set limit switches

To Order

Specify the code number from the selection chart on the next page. Also, refer to *VF Series Electric Butterfly Valves, 2 Through 20 in., Two-Way and Three-Way*. For available options, refer to *Electric Valve and Actuator Selection Charts*.

Specifications

VA-9000 Series Electric Rotary Actuators	
Models	VA-900x-01 Modulating VA-900x-02 Two-Position
Supply Voltage	120 VAC; 50/60 Hz
Limit Switches	Two, Rated at 15 A Each and Factory Set at 0 and 90° Travel (With LED Indication ^(a))
Control Signal^(b)	4 to 20 mA DC Factory Set
Feedback Potentiometer^(b)	1,000 ohms
Input Impedance^(b)	390 ohms
Ambient Temperature Limits	-40 to 150°F (-40 to 66°C) Heater/Thermostat Kit ^(b) Required Below 32°F (0°C)
Agency Listing	CSA Approved
Enclosure	Die-Cast Aluminum NEMA 4 Enclosure; Standard Red Exterior

(a) VA-900x-01 Series Modulating Actuators only.

(b) Heater/Thermostat is supplied standard for VA-900x-01 Modulating Actuators. Can be ordered as a factory-installed option for VA-900x-02 two-position actuators; use option "D" in *Accessory* field of VF Series Butterfly Valve ordering code.

Dimensions

Code Number	Height	Clearance for Cover Removal
VA-9007-01	16-3/4 in. (425 mm)	10 in. (254 mm)
VA-9007-02	16-3/4 in. (425 mm)	10 in. (254 mm)
VA-9008-01	24 in. (610 mm)	10 in. (254 mm)
VA-9008-02	24 in. (610 mm)	10 in. (254 mm)

Selection Chart: Model Numbers and Miscellaneous Specifications

Johnson Controls Actuator Code Number	Johnson Controls Actuator Sub-Code	Bray Series Number	Service	Output Torque Value, lb-in (N·m)	Stroke Time, Seconds	Current Rating, Amperes	Shipping Weight, lb (kg)
VA-9007-02	-927	S71-0100 On/Off	Two-Position	10,000 (1,130)	30	2.8	34.0 (15.4)
VA-9008-02	-928	S71-0200 On/Off	Two-Position	21,000 (2,373)	55	7.2	93.0 (42.2)
VA-9007-01	-907	S71-0100 Modulating	Modulating	10,000 (1,130)	60	2.8	36.0 (16.3)
VA-9008-01	-908	S71-0200 Modulating	Modulating	21,000 (2,373)	55	7.2	95.0 (43.1)

VA-9000 Series Electric Rotary Actuators (Continued)

Accessories and Repair Parts

Code Number	Description
Servo Control Kits	
VA-9420-601	4 to 20 mA for Discontinued VA-9001, VA-9002, VA-9003, VA-9004, VA-9005, and VA-9006 Series Modulating Electric Actuators
VA-9420-601	4 to 20 mA for Discontinued VA-9007 and VA-9008 Series Modulating Electric Actuators (Manufactured Prior to January, 1995)
VA-9420-602	4 to 20 mA for Current VA-9007 and VA-9008 Series Modulating Electric Actuators (Manufactured After January, 1995)
Mounting and Adaptor Kits for Standard-Pressure, Standard-Temperature Two-Way VF Series Butterfly Valves	
VA-9007-1600	Used when Mounting VA-9007 Series Electric Rotary Actuators on 16 in. Standard-Pressure, Standard-Temperature VF Series Butterfly Valves
VA-9007-2000	Used when Mounting VA-9007 Series Electric Rotary Actuators on 18 and 20 in. Standard-Pressure, Standard-Temperature VF Series Butterfly Valves
VA-9008-1600	Used when Mounting VA-9008 Series Electric Rotary Actuators on 16 in. Standard-Pressure, Standard-Temperature VF Series Butterfly Valves
VA-9008-2000	Used when Mounting VA-9008 Series Electric Rotary Actuators on 18 and 20 in. Standard-Pressure, Standard-Temperature VF Series Butterfly Valves
Mounting and Adaptor Kits for Class 150 High-Pressure, High-Temperature Two-Way VF Series Butterfly Valves	
VA-9007-1410	Used when Mounting VA-9007 Series Electric Rotary Actuators on 14 in. Class 150 High-Pressure, High-Temperature VF Series Butterfly Valves
VA-9008-1610	Used when Mounting VA-9007 Series Electric Rotary Actuators on 16 in. Class 150 High-Pressure, High-Temperature VF Series Butterfly Valves
Mounting and Adaptor Kits for Class 300 High-Pressure, High-Temperature Two-Way VF Series Butterfly Valves	
VA-9007-1230	Used when Mounting VA-9007 Series Electric Rotary Actuators on 10 in. Class 300 High-Pressure, High-Temperature VF Series Butterfly Valves
VA-9008-1230	Used when Mounting VA-9008 Series Electric Rotary Actuators on 12 in. Class 300 High-Pressure, High-Temperature VF Series Butterfly Valves
VA-9008-1430	Used when Mounting VA-9008 Series Electric Rotary Actuators on 14 in. Class 300 High-Pressure, High-Temperature VF Series Butterfly Valves
Limit Switch Kit	
VA-900X-601	For All Models of VA-9007 and VA-9008 Series Electric Rotary Actuators
Thermostat/Heater Kit:	
VA-900X-602	For All Models of VA-9007 and VA-9008 Series Electric Rotary Actuators
Feedback Potentiometer Kit	
VA-900X-603	0 to 1,000 ohms; For All Models of VA-9007 and VA-9008 Series Electric Rotary Actuators